

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. : 7,065,267 B2  
APPLICATION NO. : 10/712066  
DATED : June 20, 2006  
INVENTOR(S) : Zhong et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The Title page, showing an illustrative figure, should be deleted and substitute therefor the attached title page.

Drawings

Sheet 2, replace Fig. 3 with the figure depicted herein below, wherein the reference --300-- has been added.

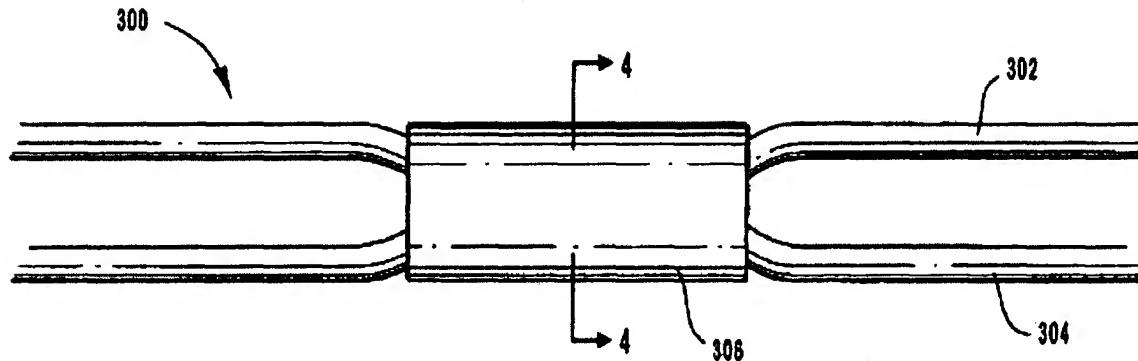


Fig. 3

Column 6

Line 35, after "24", insert --,--.

Signed and Sealed this

Third Day of August, 2010

*David J. Kappos*

David J. Kappos  
Director of the United States Patent and Trademark Office

(12) United States Patent  
Zhong et al.(10) Patent No.: US 7,065,267 B2  
(45) Date of Patent: Jun. 20, 2006(54) AATHERMAL FUSED COUPLER PACKAGE  
FOR OPTICAL FIBERS

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/712,066

(22) Filed: Nov. 13, 2003

## (65) Prior Publication Data

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## Related U.S. Application Data

(60) Provisional application No. 60/426,563, filed on Nov. 14, 2002.

(51) Int. Cl.  
*G02B 6/261* (2006.01)(52) U.S. Cl. .... 385/15; 385/78; 385/80;  
385/85; 385/92(58) Field of Classification Search ..... 385/15,  
385/50, 58, 78, 80, 85, 92  
See application file for complete search history.

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## (57)

## ABSTRACT

The present invention is directed to a fused coupler having at least two fiber optic cables that have a positive coefficient of thermal expansion. A section of each of the fiber optic cables is placed together and heated until they form a single fused section that acts as a coupler. A jacket having a negative coefficient of thermal expansion, the absolute value of which is approximately equal to the absolute value of the positive coefficient of thermal expansion of the fiber optic cables, is placed around the fused section of the fiber optic cables. The jacket can be manufactured from a ceramic material that is specifically manufactured with a negative coefficient of thermal expansion. A filler material, such as an epoxy resin, is inserted in a gap between the jacket and the fused sections of the fiber optic cables such that the gap is filled in.

25 Claims, 2 Drawing Sheets

